

III. REMARKS

1. Claims 15, 25, 26, 27 and 30 are amended. Claim 15 is amended to correct a grammatical error. With respect to claim 25, the matrix of coefficients is replaced with its transpose, which can be obtained from the matrix shown in claim 25 by swapping the rows and columns. The technical description makes it very evident that, when performing an inverse transform, a transpose of the transform matrix is used. Referring to the US Publication 2003/0078953, this is disclosed for the first time in paragraphs [0016 & 0017] and also in paragraphs [0092] to [0095], where it is shown how to recover a matrix of original source values X by applying the operation:

$$X = A^T Y A$$

where Y is a matrix containing dequantised values, A is the original transform matrix and A^T is its transpose. This should be contrasted with the formula for calculating the forward transform, given for the first time in paragraph [0009], which is expressed as:

$$Y = A X A^T$$

Further support for use of the transposed matrix in claim 25 can be found by considering claim 21, which is an equivalent claim relating to performing an inverse transform using a 4 x 4 matrix. By comparing the matrix shown in claim 21 with that given in claim 6, which represents the matrix used in the 4 x 4 forward transform, it can be seen very easily that the matrix in

claim 21 is the transpose of that given in claim 6. Therefore, by analogy, it would be obvious to a person skilled in that art that the matrix in claim 25 should be the transpose of that given in claim 10. The term "quantization" has been changed to "dequantization" in claim 25. Claims 25, 26 and 27 are amended to include the term "inverse". Claim 30 is amended to delete duplicated terminology.

2. Additionally, the Examiner's attention is directed to an error noted by Applicant in the text of US Publication No. 2003/0078953. On page 6 of the specification, paragraph [0078], right hand column, line 3, it is stated that $Y[3] = (e - e / 3) / 2 - f$.

This is not correct.

The proper form of the equation can be seen with respect to claim 9, wherein it is stated that $Y[3] = (e - e / 8) / 2 - f$.

This is correct.

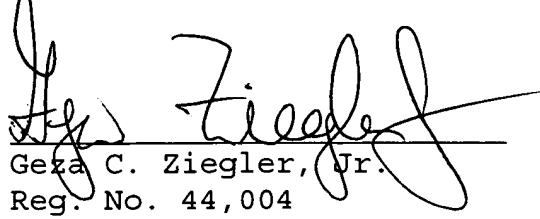
Appropriate correction is respectfully solicited.

For all of the foregoing reasons, it is respectfully submitted that all of the claims now present in the application are clearly novel and patentable over the prior art of record, and are in proper form for allowance. Accordingly, favorable reconsideration and allowance is respectfully requested. Should any unresolved issues remain, the Examiner is invited to call Applicants' attorney at the telephone number indicated below.

A check is enclosed for the RCE fee. The Commissioner is hereby authorized to charge payment for any other fees associated with

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Respectfully submitted,


Geza C. Ziegler, Jr.
Reg. No. 44,004

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Date

Perman & Green, LLP
425 Post Road
Fairfield, CT 06824
(203) 259-1800
Customer No.: 2512

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